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(54) Title: BIARYL SUBSTITUTED THIAZOLES, OXAZOLES AND IMIDAZOLES AS SODIUM CHANNEL BLOCKERS

(57) Abstract: Biaryl substituted thiazole, oxazole and imidazole compounds are sodium channel blockers useful for the treatment of pain. Pharmaceutical compositions comprise an effective amount of the instant compounds, either alone, or in combination with one or more therapeutically active compounds, and a pharmaceutically acceptable carrier. Methods of treatment or prevention of conditions, including acute pain, chronic pain, visceral pain, inflammatory pain, and neuropathic pain comprise administering an effective amount of the present compounds, either alone, or in combination with one or more therapeutically active compounds.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/11271

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C07D 277/42, 277/56 US CL : 548/199, 200, 201				
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 548/199, 200, 201				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN CAS ONLINE				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category * Citation of document, with indication, where		Relevant to claim No.		
A Database CAPLUS on STN, Khoa Hoa, Ttruong 99:70610, Dang Nhu Tai et al. 'Azomethine base some azomethine bases and 4-thiazolidinones con abstract, Tap Chi Hoa Hoc, (1982), 20(4), pages	es and their derivatives. VI. Synthesis of staining both thiopene and thiazole rings'	9-12		
Further documents are listed in the continuation of Box C	. See patent family annex.			
Special categories of cited documents:	"T" later document published after the in	ternational filing date or		
"A" document defining the general state of the art which is not considered to be of particular relevance	priority date and not in conflict with understand the principle or theory un	the application but cited to derlying the invention		
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be considered when the document is taken along	ered to involve an inventive		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the considered to involve an inventive st combined with one or more other suc combination being obvious to a pers.	ep when the document is		
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent			
"P" document published prior to the international filing date but later than the				
Date of the actual completion of the international search	Date of mailing of the international sear	ch report		
12 August 2004 (12.08.2004) Name and mailing address of the ISA/US	Ayuhorizephofficer 1/10			
Mail Stop PCT, Aun: ISA/US Commissioner for Patents P.O. Box 1450	Laura C. Stockton, Ph.D.	Barresfy		
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Telephone No (571) 272-160			

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/11271

Box No. II sheet)	Observations where certain claims were found unsearchable (Continuation of item 2 of first	
	nal search report has not been established in respect of certain claims under Article 17(2)(a) for the following	
	claims Nos.: ecause they relate to subject matter not required to be searched by this Authority, namely:	
be	laims Nos.: 1-8 and 13-31 excause they relate to parts of the international application that do not comply with the prescribed requirements to ach an extent that no meaningful international search can be carried out, specifically: lease See Continuation Sheet	
]	laims Nos.: exause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule	
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)	
This Internation	al Searching Authority found multiple inventions in this international application, as follows:	
sea	s all required additional scarch fees were timely paid by the applicant, this international search report covers all archable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.		
3. As	s only some of the required additional search fees were timely paid by the applicant, this international search port covers only those claims for which fees were paid, specifically claims Nos.:	
4. No is 1	required additional scarch fees were timely paid by the applicant. Consequently, this international search report restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Prot	est The additional search fees were accompanied by the applicant's protest.	
	No protest accompanied the payment of additional search fees.	
	O (continuation of first shoot(2)) (Inners 2004)	

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004

Continuation of Box II Reason 2: In these claims, numerous variables (e.g., HET, R¹, R³, R¹, etc.), their voluminous involved meanings, their large number of permutations and combinations and the list of compounds in claims 9-16 make it virtually impossible to determine the full scope for which protection is sought. As presented, the claimed subject matter cannot be regarded as being a concise description which protection is sought and as such, the claims do not comply with the requirements of PCT Article 6. Thus, it is impossible to carry out a meaningful timely search on same. A search will be provided on the first discernable invention which is the subject matter of claims 9-12.	!	International application No.
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